



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/675,944  
Atty Dkt No. : 200205522-1 (32944/US)  
Applicant : Doron SHAKED  
Filed : October 2, 2003  
Title : METHOD TO SPEED-UP RETINEX-TYPE ALGORITHMS

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**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

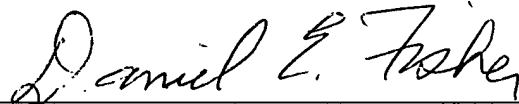
In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicant wishes to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449 (copies of the cited references, as required under 37 C.F.R. § 1.98, are enclosed). Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicant's duty to disclose all information he is aware of which is believed relevant to the examination of the above-identified application, applicant believes that his invention is patentable.

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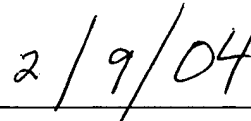
Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,

DORSEY & WHITNEY LLP



Daniel E. Fisher  
Registration No. 34,162



Date

DEF:mp

Enclosures:

Form PTO-1449  
Cited References (22)

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FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
200205522-1 (32944/US)APPLICATION NO.  
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## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)  
Doron SHAKEDFILING DATE  
October 2, 2003

GROUP ART UNIT

## U.S. PATENT DOCUMENTS

INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	4,384,336	05/17/1983	Frankle et al.	382	49	
AB	4,649,568	03/10/1987	Kiesel et al.	382	41	

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO
AC						

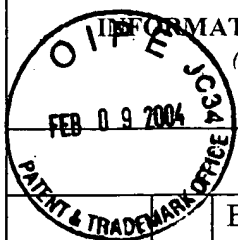
## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AD	✓	A. Blake, "Boundary Conditions of Lightness Computation in Mondrian World," <i>Computer Vision Graphics and Image Processing</i> , Vol. 32, pp. 314-327, 1985
AE	✓	J. M. DiCarlo et al., "Rendering High Dynamic Range Images," <i>Proc. SPIE</i> , Vol. 3965, pp. 392-401, 2000
AF	✓	F. Durand, et al., "Fast Bilateral Filtering for the Display of High Dynamic Range Images," preprint < <a href="http://graphics.lcs.mit.edu/~fredo/DurandBilateral.pdf">http://graphics.lcs.mit.edu/~fredo/DurandBilateral.pdf</a> >
AG	✓	O. D. Faugeras, "Digital Image Color Processing Within the Framework of a Human Visual Model," <i>IEEE Trans. on ASSP</i> , Vol. 27, pp. 380-393, 1979
AH	✓	B. Funt et al., "Retinex in Matlab," <i>Proc. of IS&amp;T 8<sup>th</sup> Color Imaging Conference</i> , pp. 112-121, 2000
AI	✓	B. K. P. Horn, "Determining Lightness from an Image," <i>Computer Graphics and Image Processing</i> , Vol. 3, pp. 277-299, 1974
AJ	✓	D. J. Jobson et al., "A Multiscale Retinex for Bridging the Gap Between Color Images and the Human Observation of Scenes," <i>IEEE Trans. on Image Proc.</i> , Vol. 6, pp. 965-976, 1997
AK	✓	R. Kimmel et al., "A Variational Framework for Retinex," <i>Hewlett Packard Technical Report HPL-1999-151</i> , June 1999
AL	✓	R. Kimmel et al., "Space Sensitive Color Gamut Mapping: A Variational Approach," <i>Hewlett Packard Technical Report HPL-2000-50</i> , April 2000
AM	✓	E. H. Land, "Recent Advances in the Retinex Theory and Some Implications for Cortical Computations: Color Vision and the Natural Image," <i>Proc. National Academy of Science USA</i> , Vol. 80, pp. 5163-5169, 1983

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

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(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
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BA	✓ E. H. Land, "An Alternative Technique for the Computation of the Designator in the Retinex Theory of Color Vision," <i>Proc. National Academy of Science USA</i> , Vol. 83, pp. 3078-3080, 1986
BB	✓ E. H. Land et al., "Lightness and the Retinex Theory," <i>J. Optical Soc. of America A</i> , Vol. 61, pp. 1-11, 1971
BC	✓ J. McCann, "Lessons Learned from Mondrians Applied to Real Images and Color Gamuts," <i>Proc. IS&amp;T/SID 7<sup>th</sup> Color Imaging Conference</i> , pp. 1-8, 1999
BD	✓ J. McCann et al., "Demonstration of Red/White Projections and Rod-Leone Color," <i>Proc. of SPIE</i> , Vol. 4662, pp.324-330, Jan. 2002
BE	✓ J. McCann et al., "Capturing a Black Cat in Shade: The Past and Present of Retinex Color Appearance Models," <i>Proc. of SPIE</i> , Vol. 4662, pp.321-340, Jan. 2002
BF	✓ R. Sobol, "Improving the Retinex Algorithm for Rendering Wide Dynamic Range Photographs," <i>Proc. of SPIE</i> , Vol. 4662, pp. 341-3487, 2002
BG	✓ T. G. Stockham, Jr., "Image Processing in the Context of a Visual Model," <i>Proc. of the IEEE</i> , Vol. 60, pp. 828-842, 1972
BH	✓ J. Tumblin et al., "Two Methods for Display of High Contrast Images," <i>ACM Trans. on Graphics</i> , Vol. 18, pp. 56-94, 1999
BI	✓ J. Tumblin et al., "LCIS: A Boundary Hierarchy for Detail-Preserving Contrast Reduction," <i>SIGGRAPH</i> , pp. 83-90, 1999
BJ	✓ D. Terzopoulos, "Image Analysis Using Multigrid Relaxation Methods," <i>IEEE Trans. on PAMI</i> , Vol. 8, pp. 129-139, 1986
BK	

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